



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/694,676	10/28/2003	Tao-Ping Wang	TS02-1089	9642

7590 12/23/2004
STEPHEN B. ACKERMAN
28 DAVIS AVENUE
POUGHKEEPSIE, NY 12603

EXAMINER

PHAN, TRONG Q

ART UNIT	PAPER NUMBER
----------	--------------

2818

DATE MAILED: 12/23/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/694,676	Applicant(s) WANG, TAO-PING	
	Examiner TRONG PHAN	Art Unit 2818	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 October 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-38 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-38 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>1204</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION***Drawings***

1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: DQ0, DQ1, DQm, DQn and DQz in Figs. 1-2 Prior Art and 3; COL 0, COL n, COL R, 451a ... 451z, 265a ... 265z, in Fig. 3; WRTIE from n-1, READ n+1, READ n, WRITE n, WRITE to n+1, 459, neihit, iohit and DQx in Fig. 4; iohit OL, iohit 1L, iohit 2L, iohit nL, iohit OR, iohit 1R, iohit 2R, iohit nR, neihit 0, neihit 1, neihit 2, neihit m, neihit n, neihit n+1, neihit n+2, neihit n, MUX CTRL a, MUX CTRL b, MUX CTRL c, MUX CTRT m, MUX CTRL z, MUX CTRL y, MUX CTR: x, MUX CTRL n, 415a, 430a, 430b, 430c, 430m, 430n, 430x, 430y, 430zMUX REDUN, L/R, SW, 407z, FUSE0, FUSE1, FUSE2 and FUSEm in Fig. 5. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Art Unit: 2818

2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: 225a ... 225z (line 20, page 15; lines 8, 11, 13-14 and 16, page 16; lines 9 and 16-17, page 17; lines 12 and 15, page 18); 230a, 230b ... 230z (line 21, page 15; lines 1, 8, 12, 14 and 16-17, page 16; lines 9 and 17, page 17; lines 12 and 15, page 18); 260a, 260m, 260n and 260z (line 6, page 18); (iohitnx) 405 (line 11, page 18; 235 of memory cells 240a, 240b and 240z (last two lines of page 18); (neihit a) 430a (line 14, page 20); 300a (line 15, page 20); 295a (line 15, page 20); (neihit x) 430b ... 430m (line 21, page 20); 300b ... 300m (line 21, page 20); 295b ... 295m (line 22, page 20); 295m and 305 (line 1, page 21); 260m (line 2, page 21); 260n ... 260z (line 6, page 21). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Art Unit: 2818

4. Claims 1-38 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

It is not understood what DQ0, DQ1, DQm, DQn and DQz in Figs. 1-2 Prior Art and 3; COL 0, COL n, COL R, 451a ... 451z, 265a ... 265z, in Fig. 3; WRTIE from n-1, READ n+1, READ n, WRITE n, WRITE to n+1, 459, neihit, iohit and DQx in Fig. 4; iohit OL, iohit 1L, iohit 2L, iohit nL, iohit OR, iohit 1R, iohit 2R, iohit nR, neihit 0, neihit 1, neihit 2, neihit m, neihit n, neihit n+1, neihit n+2, neihit n, MUX CTRL a, MUX CTRL b, MUX CTRL c, MUX CTRT m, MUX CTRL z, MUX CTRL y, MUX CTR: x, MUX CTRL n, 415a, 430a, 430b, 430c, 430m, 430n, 430x, 430y, 430zMUX REDUN, L/R, SW, 407z, FUSE0, FUSE1, FUSE2 and FUSEm in Fig. 5 really are since they are not described in the specification.

It is not understood what 225a ... 225z (line 20, page 15; lines 8, 11, 13-14 and 16, page 16; lines 9 and 16-17, page 17; lines 12 and 15, page 18); 230a, 230b ... 230z (line 21, page 15; lines 1, 8, 12, 14 and 16-17, page 16; lines 9 and 17, page 17; lines 12 and 15, page 18); 260a, 260m, 260n and 260z (line 6, page 18); (iohitnx) 405 (line 11, page 18; 235 of memory cells 240a, 240b and 240z (last two lines of page 18); (neihit a) 430a (line 14, page 20); 300a (line 15, page 20); 295a (line 15, page 20); (neihit x) 430b ... 430m (line 21, page 20); 300b ... 300m (line 21, page 20); 295b ... 295m (line 22, page 20); 295m and 305 (line 1, page 21); 260m (line 2, page 21); 260n

Art Unit: 2818

... 260z (line 6, page 21) really are since they are not seen in the drawings of the present invention.

All elements as recited in claims 1-38 are not readable on the respective drawings of the present invention.

Applicant is requested to point out each of recited elements in claims 1-38 to be read on which element in the drawings of the present invention in order to help the examiner to understand the claimed subject matter.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Takizawa et al., 5,124,948, Ichikawa, 6,130,851, Irrinki et al., 6,067,262, Hildebeitel et al., 5,430,679, Hsuan et al., 6,512,708, Wendell, 5,923,601, Lopez et al., 5,199,035, and Daughton et al., 3,753,235.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to TRONG PHAN whose telephone number is (571) 272-1794. The examiner can normally be reached on M-F (8:30-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571)272-1787. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Art Unit: 2818

Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read 'Phan Trong', written in a cursive style.

**TRONG PHAN
PRIMARY EXAMINER**